

50

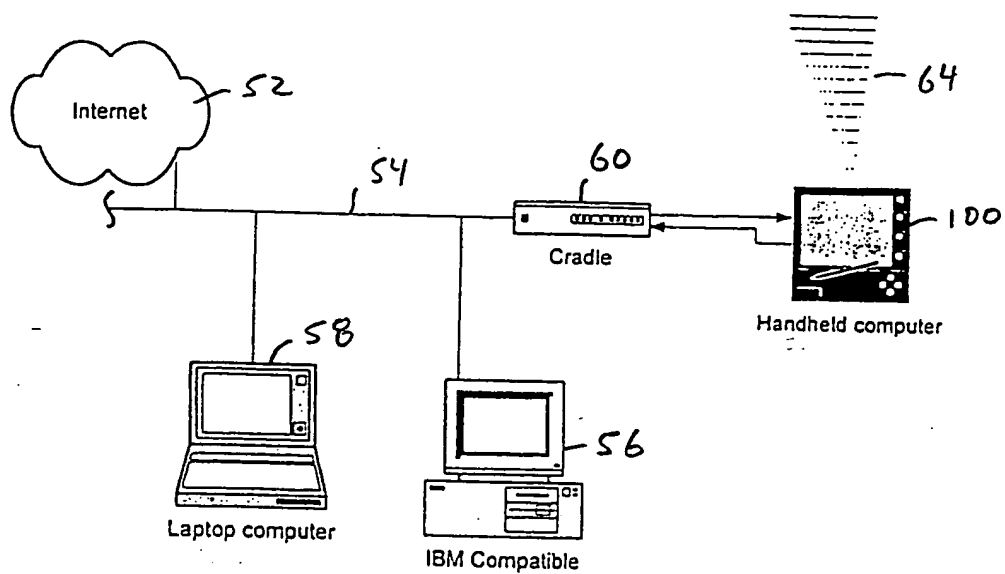


FIG. 1



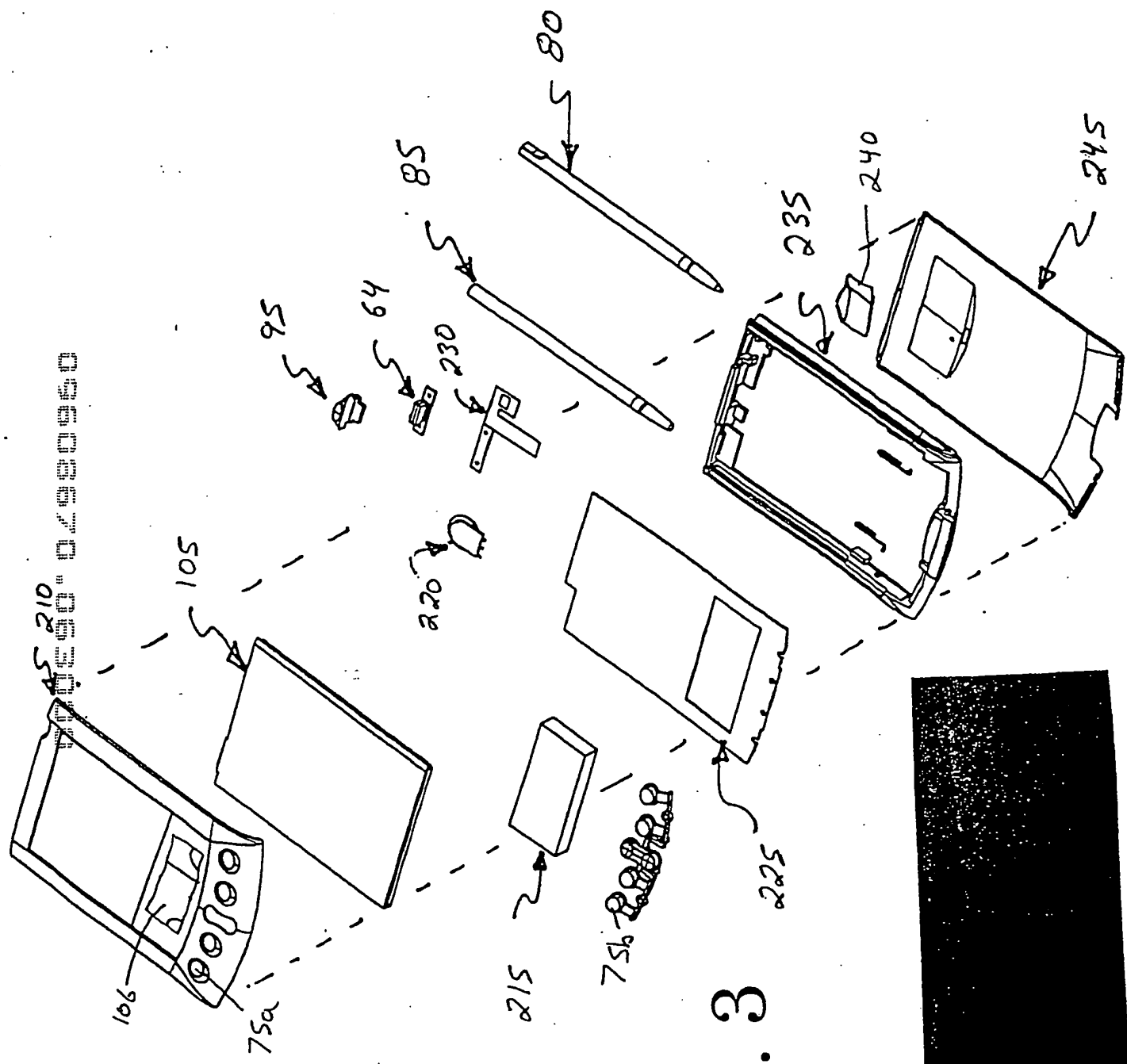


FIG. 3

09608670-063000

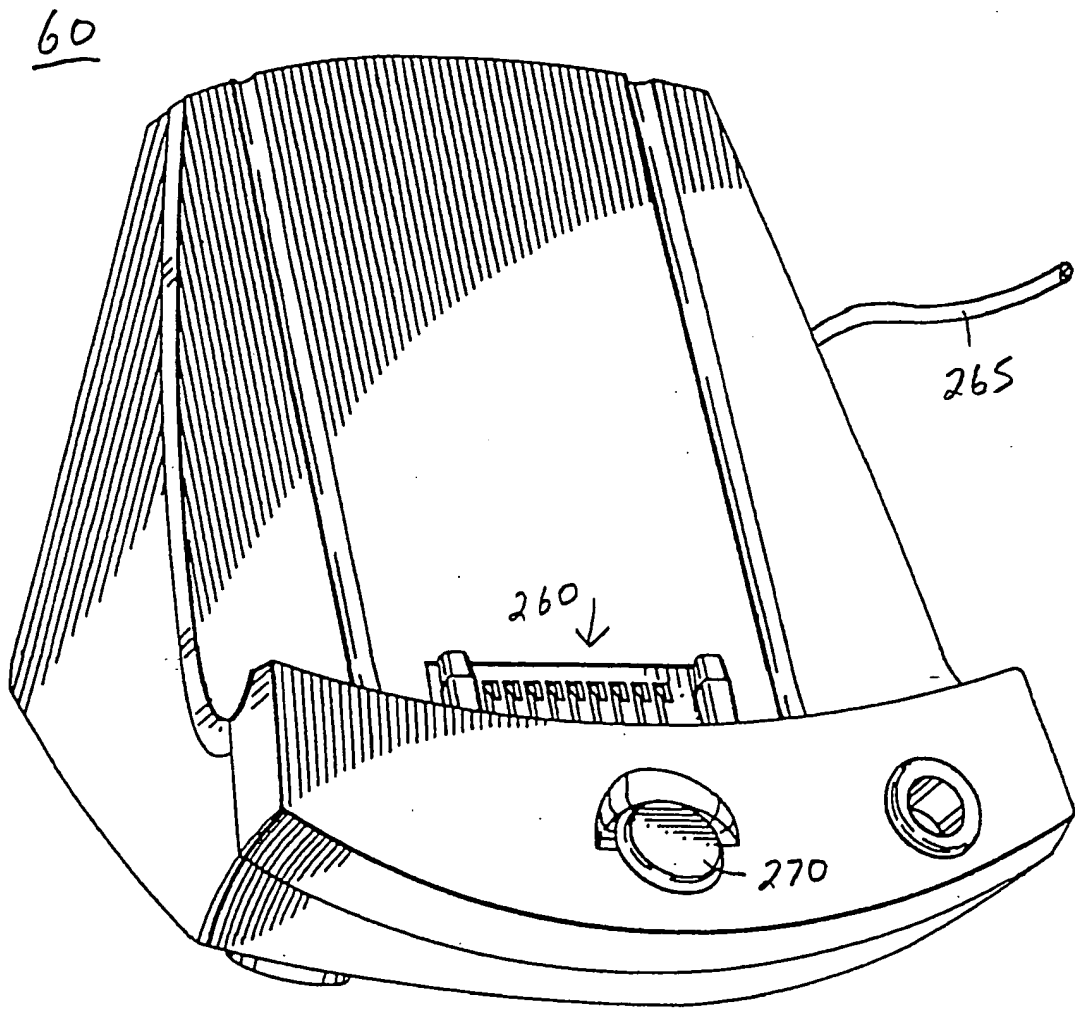
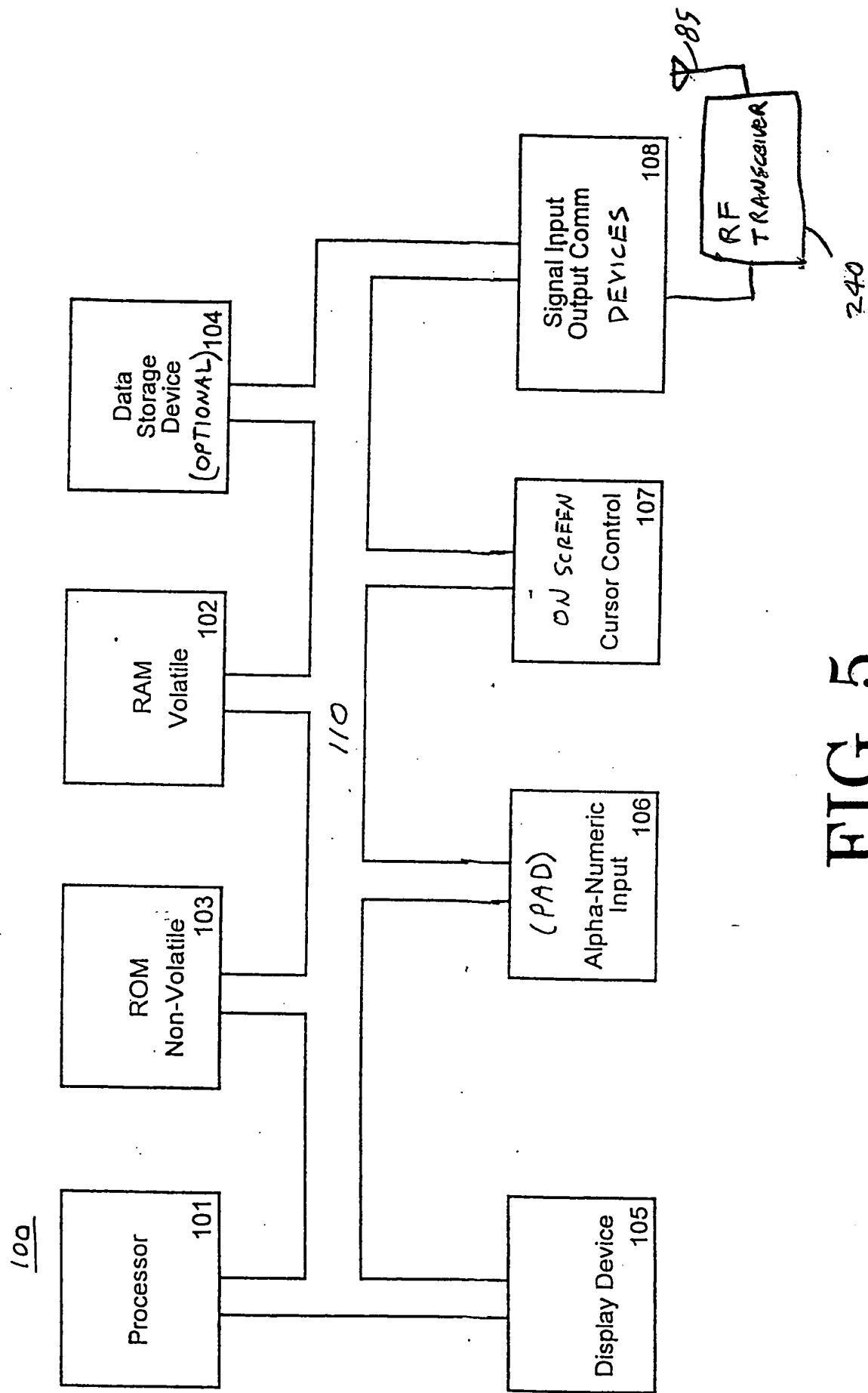


FIG. 4

**THE UNIVERSITY OF CHICAGO**



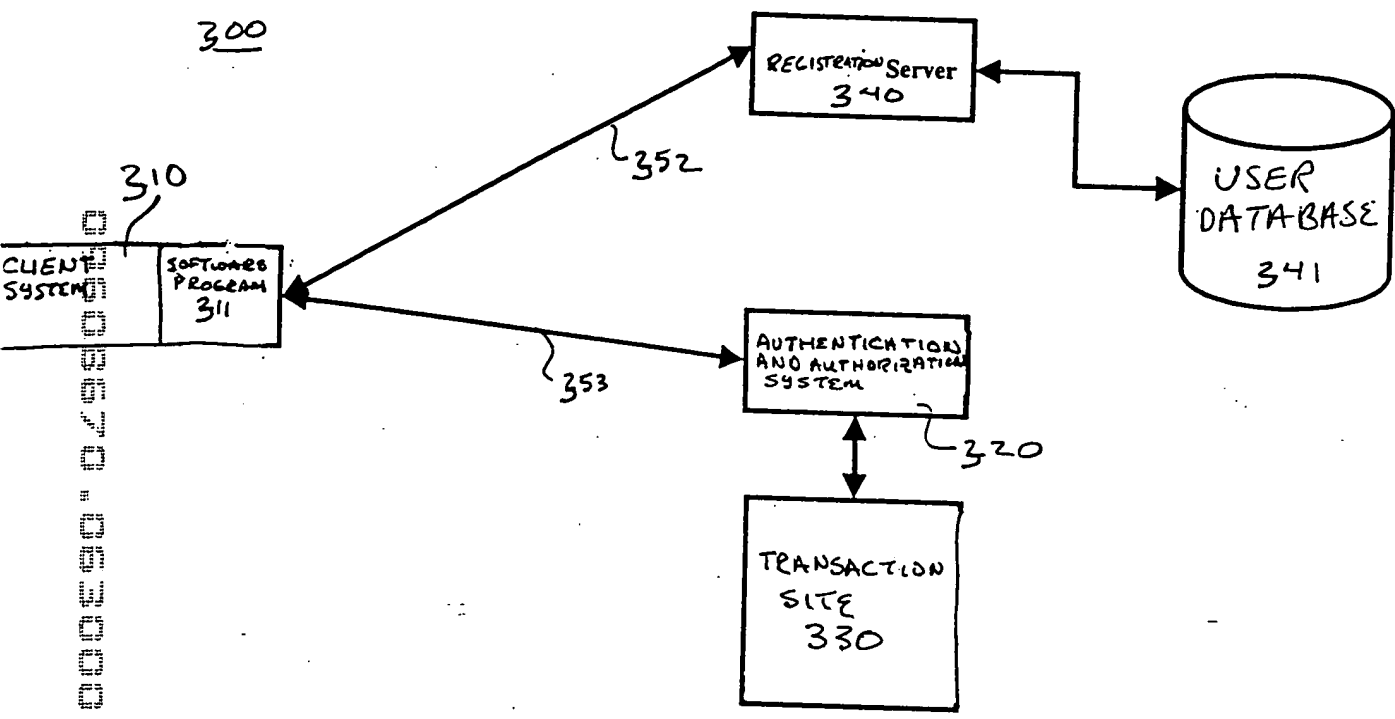


FIG. 6

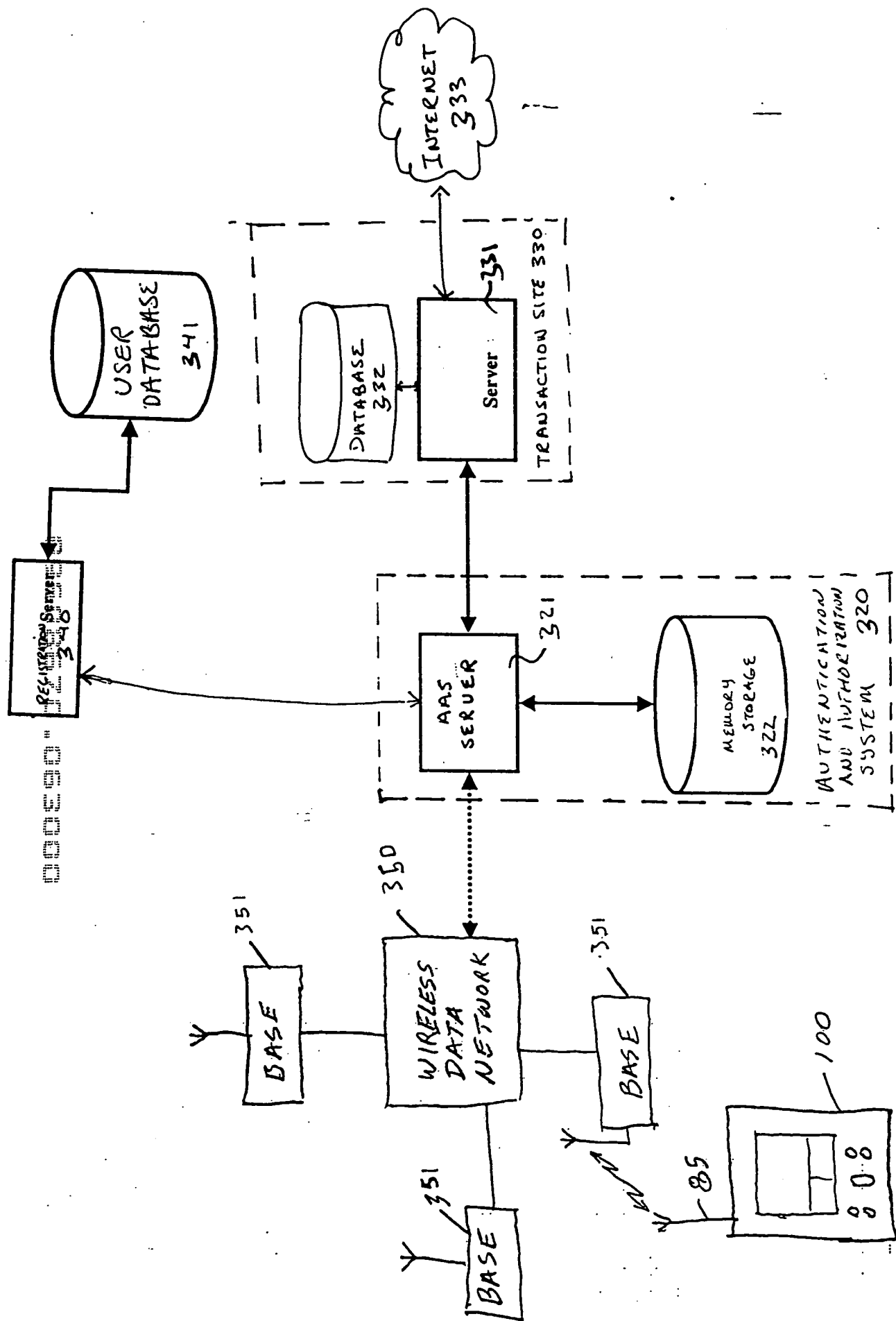


FIG. 7

```

graph TD
    801[REQUEST SERVICE  
801] --> 802{AUTHORIZATION  
COOKIE?  
802}
    802 -- NO --> 812[REGISTER USER  
812]
    812 --> 813[PROVIDE COOKIE  
813]
    802 -- YES --> 803[GENERATE QUERY  
803]
    803 --> 804[TRANSMIT QUERY TO AUTHENTICATION AND  
AUTHORIZATION SYSTEM SERVER  
804]
    804 --> 805{IS REQUEST  
AUTHENTIC AND  
AUTHORIZED?  
805}
    805 -- NO --> 809[GENERATE AND TRANSMIT  
ERROR MESSAGE  
809]
    805 -- YES --> 806[FORWARD REQUEST TO TRANSACTION SITE  
806]
    806 --> 807[GENERATE RESPONSE  
807]
    807 --> 808[TRANSMIT RESPONSE BACK TO  
USER SYSTEM  
808]
  
```

**FIG. 8**

FIG. 8



